

# इंटरनेट

# मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11542-1 (1985): Dimensions for Tyre Tube Valve Core Chamber, Part 1: Core Chamber No. 1 (Standard Bore) [TED 7: Automotive Tyres, Tubes and Rims]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



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*Indian Standard*  
**DIMENSIONS FOR  
TYRE TUBE VALVE CORE CHAMBER**

**PART 1 CORE CHAMBER NO. 1 (STANDARD BORE)**

(Incorporating Amendment No. 1)

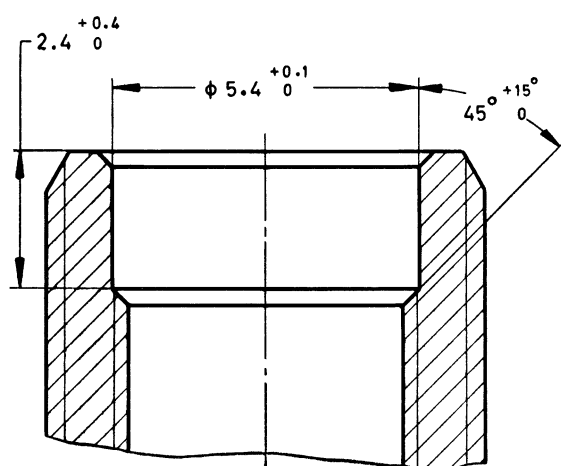
**1. Scope** — Covers the interchangeability dimensions of valve core chamber No. 1 (standard bore).

**1.1** This standard applies to core chambers of valves used on tyre tubes for automotive vehicles and agricultural machines.

**2. Dimensions** — The dimensions of valve core chamber No. 1 shall be as given in Table 1.

**2.1 Counterbore Dimensions** — When provided the dimensions of counterbore shall be as given in Fig. 1 ( see Notes in Table 1 and Fig. 1 ).

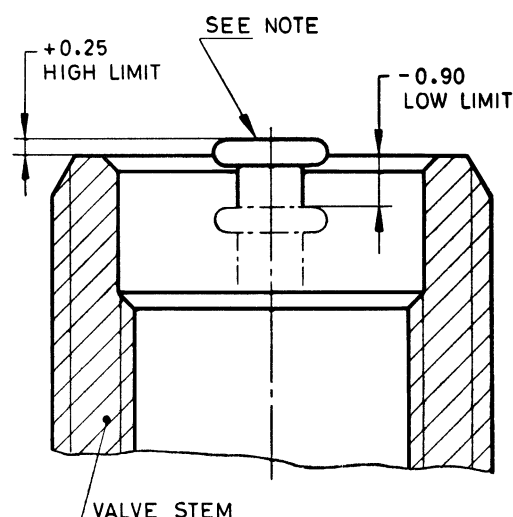
**2.2 Core Pin Head Position Tolerances** — The tolerances on position of core pin head shall be as given in Fig. 2.



All dimensions in millimetres.

**Note** — The counterbore of the valve mouth is optional.

FIG. 1 COUNTERBORE DIMENSIONS



All tolerances in millimetres.

**Note** — The pin head shall not be more than 0.25 mm above or 0.90 mm below the valve mouth after inserting the core at a torque of:

- a) 0.17 to 0.34 N.m for a core with an elastomeric barrel gasket; and
- b) 0.34 to 0.54 N.m for a core with a metallic sealing gasket.

FIG. 2 CORE PIN HEAD POSITION — TOLERANCES

### EXPLANATORY NOTE

This Indian Standard has been prepared on the basis of ISO 7442-1982 'Tyre valves — ISO core chamber No. 1' issued by International Organization for Standardization (ISO).

This part of the standard covers only core chamber No. 1 (standard bore). The core chamber No. 2 (large bore) is covered by IS : 11542 (Part 2)-1985 'Tyre tube valve core chamber: Part 2 Core chamber No. 2 (large bore)'.

This edition 1.1 incorporates Amendment No. 1 (October 2003). Side bar indicates modification of the text as the result of incorporation of the amendment.

Adopted 4 October 1985

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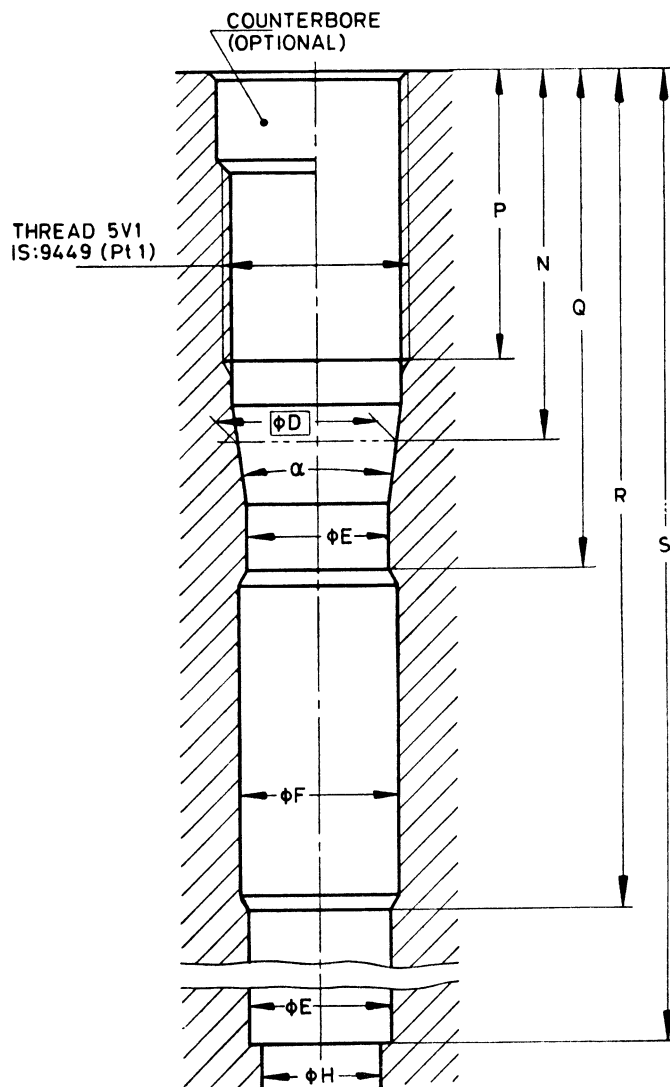
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TABLE 1 DIMENSIONS FOR VALVE CORE CHAMBER

( Clause 2 )

All dimensions in millimetres.

Thread 5V1 [See IS : 9449 (Part 1)-1980\*]



	Min	Max
$D$		4.30
$E$	3.82	3.94
$F$	4.27	4.70
$H$	†	3.20
$N$	10.00	10.40
$P$ †	7.80	8.60
$Q$	13.50	14.50
$R$	22.70	25.00
$S$	30.50	31.00
$a$	16°	18°

**Note** — The counterbore of the valve mouth is optional ( see 2.1 ).

\*Dimensions for tyre valve threads: Part 1 Threads 5V1, 5V2, 6V1 and 8V1.

†As specified by the manufacturer.

‡The length of the thread is determined by using a 'GO' thread plug gauge [see IS : 2334-1975 Gauging practice for ISO metric screw threads ( first revision )]. The dimension is to be measured from the end of the gauge and is to include a chamfer length of  $0.5 \times \text{pitch}$ .